

ICC





**Developing state regulations not
available in an international model code**

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CBSC Executive Director



CA Global Warming Act



- AB 32 (2006) – reduce GHG emissions
 - 1990 levels by 2020
- SB 32 (2016)
 - 40% below 1990 levels by 2030

California Initiatives



- 1.5 mil. Zero Emission Vehicles by 2025
- 5 mil. Zero Emission Vehicles by 2030
- Legislation - AB 1092 (2013)
- California's Green Building Standards Code

Code Development Challenges



Industry

State initiative

Mandatory or Voluntary

Various state agencies

Diverse geography

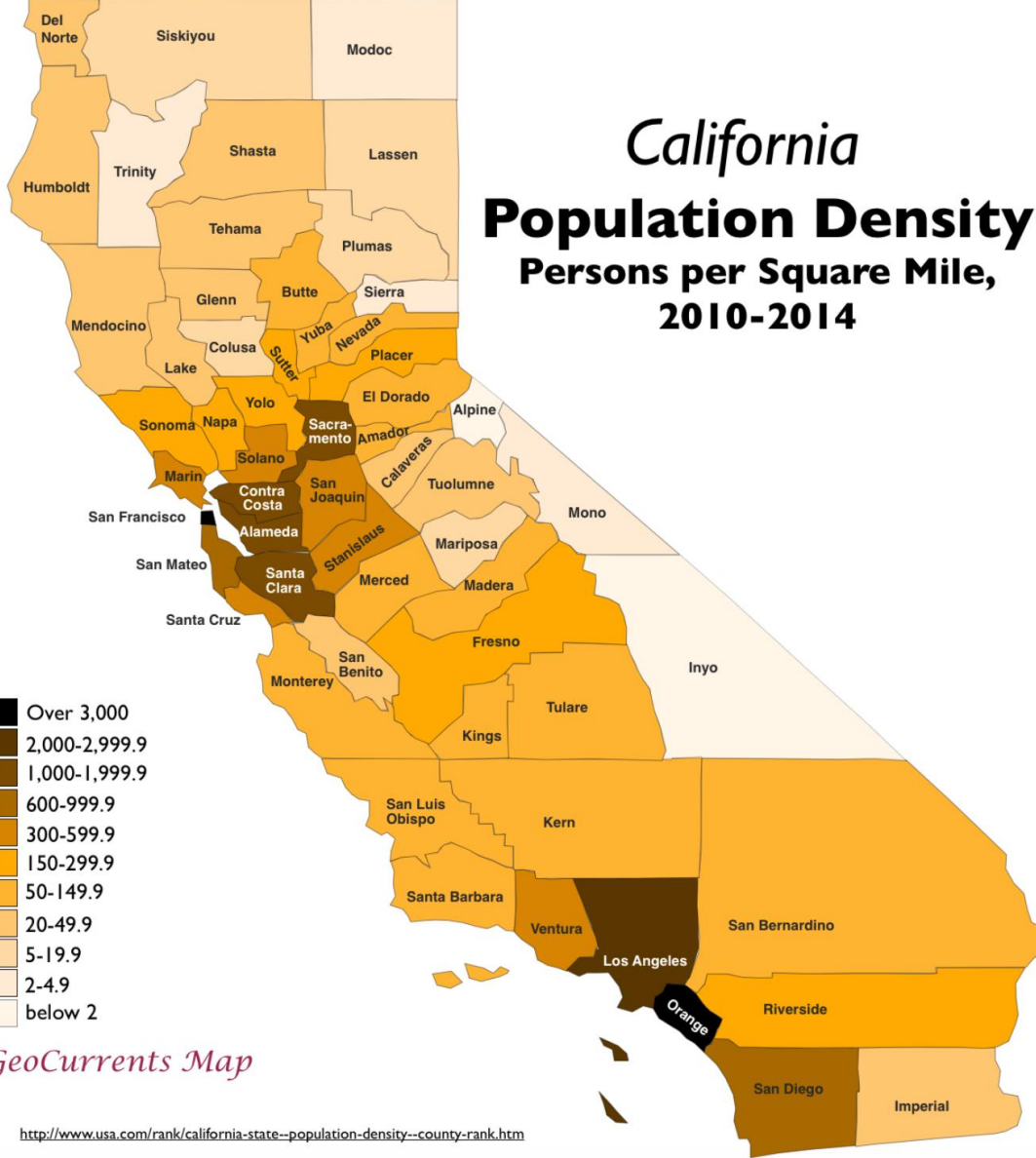
Access for disability community

California

Population Density Persons per Square Mile, 2010-2014

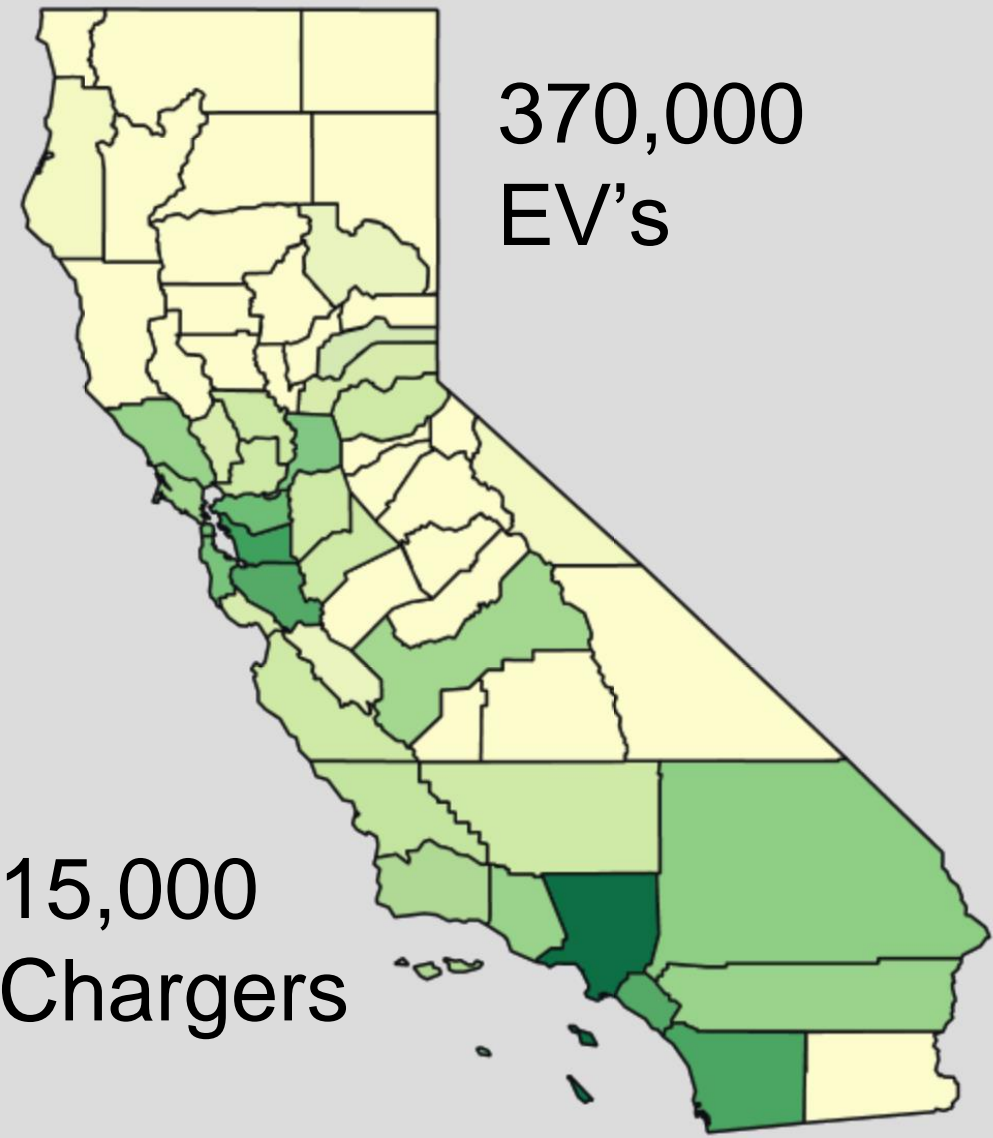


40 million citizens
Pacific Coast
Mountain ranges
Agriculture
Desert
Rural



- 11 Over 3,000
- 10 2,000-2,999.9
- 9 1,000-1,999.9
- 8 600-999.9
- 7 300-599.9
- 6 150-299.9
- 5 50-149.9
- 4 20-49.9
- 3 5-19.9
- 2 2-4.9
- 1 below 2

GeoCurrents Map



**Existing BEV Registrations
(Registered Vehicles)**

- 0 - 200
- 200 - 1160
- 1160 - 2500
- 2500 - 5620
- 5620 - 19320
- 19320 - 27210

**Existing PHEV Registrations
(Registered Vehicles)**

- 0 - 320
- 320 - 1700
- 1700 - 4890
- 4890 - 8060
- 8060 - 16090
- 16090 - 35520

California Code Development



- Rulemaking laws
- Ensure transparent process
- Public input
- Workshops
- Advisory Committee review
- Public comment periods
- Commission review/approval
- Timeline

Mandatory or Voluntary



- 2008 – 2014 Voluntary
- 2015 – Mandatory EV infrastructure
 - Family with garage
 - Multifamily > 17 units; 3% of parking
 - Commercial; 3% of parking
- 2017 – Enhanced commercial to 6%

EV Regulations



- Plans include location of EV
- Raceway from service panel to termination
- Electrical calculations
- Service panel capacity
- Design based on 40-amp min. branch circuits
- Comply with CA Bldg Code and Elec Code

Voluntary Tiers



- Local Jurisdiction Adoption
- 2015 – 3% Mandatory
 - Voluntary Tiers; 4% and 6%
- 2017 – 6% Mandatory
 - Voluntary Tiers; 8% and 10%
- 2020 - Enhanced multi-family 10%
 - Voluntary Tiers; 15% and 20%

EV Station Accessibility Regulations



- No national or federal access regulations
- Effective January 1, 2017 – EV stations meet
 - Dimension and slope, obstructions
 - Path of travel
 - Surface marking EV CHARGING ONLY
 - First EV station van accessible
 - No ISA four or less

EV Accessibility Regulations



**TABLE 11B-228.3.2.1
ELECTRIC VEHICLE CHARGING STATIONS FOR PUBLIC USE AND COMMON USE**

TOTAL NUMBER OF EVCS AT A FACILITY ¹	MINIMUM NUMBER (by type) OF EVCS REQUIRED TO COMPLY WITH SECTION 11B-812 ¹		
	Van Accessible	Standard Accessible	Ambulatory
<i>1 to 4</i>	<i>1</i>	<i>0</i>	<i>0</i>
<i>5 to 25</i>	<i>1</i>	<i>1</i>	<i>0</i>
<i>26 to 50</i>	<i>1</i>	<i>1</i>	<i>1</i>
<i>51 to 75</i>	<i>1</i>	<i>2</i>	<i>2</i>
<i>76 to 100</i>	<i>1</i>	<i>3</i>	<i>3</i>
<i>101 and over</i>	<i>1, plus 1 for each 300, or fraction thereof, over 100</i>	<i>3, plus 1 for each 60, or fraction thereof, over 100</i>	<i>3, plus 1 for each 50, or fraction thereof, over 100</i>

1. Where an EV charger can simultaneously charge more than one vehicle, the number of EVCS provided shall be considered equivalent to the number of electric vehicles that can be simultaneously charged.

Resources for EV Regulations



- Commercial – CBSC www.bsc.ca.gov
- Residential – Dept. Housing and Community Development
www.hcd.ca.gov
- Accessibility – Division of the State Architect www.dgs.ca.gov/dsa

Contact CBSC



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